PATENT ASSIGNMENT COVER SHEET

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UBMISSION TYPE: NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JIAYU PENG	07/29/2022
SHENG NA MA	08/06/2022
XICHEN HUANG	07/31/2022
JAMES ROBERT KOEHLER	07/29/2022
LU ZHANG	08/10/2022

RECEIVING PARTY DATA

Name:	GOOGLE LLC	
Street Address:	ress: 1600 AMPHITHEATRE PARKWAY	
City:	y: MOUNTAIN VIEW	
State/Country:	State/Country: CALIFORNIA	
Postal Code: 94043		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17911881

CORRESPONDENCE DATA

Fax Number: (864)233-7342

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 8642711592

Email: mmiller@dority-manning.com, usdocketing@dority-manning.com

Correspondent Name: DORITY & MANNING, P.A.

Address Line 1: PO BOX 1449

Address Line 4: GREENVILLE, SOUTH CAROLINA 29602

ATTORNEY DOCKET NUMBER:	MBER: GGLD-654-PCT-US	
NAME OF SUBMITTER: LILLIAN G. FANT		
SIGNATURE:	/Lillian G. Fant/	
ATE SIGNED: 09/29/2022		

Total Attachments: 3

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ATTORNEY DOCKET NUMBER: GGLD-654-PCT

CONFIRMATORY ASSIGNMENT OF WORLDWIDE RIGHTS

WHEREAS, we, Jiayu Peng, a citizen of China, residing in Sunnyvale, California; Sheng Na Ma, a citizen of the United States of America, residing in Belmont, California; Xichen Huang, a citizen of China, residing in Sunnyvale, California; James Robert Koehler, a citizen of the United States of America, residing in Boulder, Colorado; and Lu Zhang, a citizen of the United States of America, residing in Beijing, China, as assignors, have made an invention entitled

"DIFFERENTIALLY PRIVATE FREQUENCY DEDUPLICATION"

(the "In	vention") as described in a patent application (the "Patent Application"), the specification of
which:	
	is attached hereto.
	was filed on as U.S. Application Serial No
\boxtimes	was filed on June 23, 2021 as PCT Application Serial No. PCT/US2021/038716.
П	was filed on as

WHEREAS, Google LLC, 1600 Amphitheatre Parkway, Mountain View, California 94043, as assignee, has received and secured or hereby receives and secures the entire right, title and interest in and to the Invention and the Patent Application in all countries throughout the world, in and to any Letters Patent or similar rights for the Invention to be issued upon the Patent Application throughout the world, any application for Letters Patent or similar rights for the Invention claiming priority to the Patent Application in all countries throughout the world, and any Letters Patent or similar rights to be issued claiming priority to the Patent Application in all countries throughout the world;

NOW, THEREFORE, be it known that for good and valuable consideration from assignee, the receipt of which is hereby acknowledged, we, as assignors, acknowledge and confirm that we have sold, assigned, transferred, conveyed, and set over, or do hereby sell, assign, transfer, convey, and set over unto the assignee, its lawful successors and assigns, our entire right, title, and interest in and to the Invention and the Patent Application now existing and in the future, and all divisions, continuations, continuations-in-part, and national-stage applications thereof, any and all applications claiming priority to any of the foregoing, all Letters Patent or similar rights which may be granted on any of the foregoing, all reissues and re-examinations of any of the foregoing, all permutations of claims to any subject matter included in the Patent Application, including any claims appearing in any of the foregoing, all rights to claim priority on the basis of any of the foregoing applications, all applications

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for Letters Patent or similar rights which may hereafter be filed for the Invention in any country, all Letters Patent or similar rights which may be granted on the Invention in any country, all extensions, renewals, reissues, and re-examinations of any of the foregoing, any and all causes of action, claims, and demands and other rights for, or arising from, any infringement, breaches, or misappropriation, including past infringements, breaches, and misappropriations of any of the foregoing throughout the world, the right to take actions to assert any and all causes of action related to any of the foregoing throughout the world, including those accrued in assignors' favor for infringement, breach, and misappropriation, and the right to sue and recover and have past, present, and future damages and profits for infringement, breach, and misappropriation, in all countries, territories, and possessions throughout the world in accordance with the laws thereof, to the full extent of such rights, and we hereby authorize and request the Commissioner for Patents of the United States and any official of any other country whose duty it is to issue patents on applications as described above, to issue all Letters Patent or similar rights for the Invention or the Patent Application or any applications as described above to assignee, its successors and assigns, in accordance with the terms of this Assignment, and we hereby authorize the assignee, its successors and assigns, and the attorney(s) of record in applications as described above to modify this Assignment, subsequent to its execution, to more specifically identify the applications as described above.

WE HEREBY covenant that we have the full right to convey the interest assigned by this Assignment, and we have not executed, and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that we will, without further consideration, communicate with assignee, its successors and assigns, any facts known to us respecting the Invention, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title of the Invention in said assignee, its successors and assigns, execute all divisional, continuation, reissue applications, re-examination applications, and any applications claiming priority to the Patent Application, and make all rightful oaths and generally aid assignee, its successors and assigns, to obtain and enforce proper patent and any other protection for the Invention in the United States and any other country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

below:

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IN WITNESS WHEREOF, the Assignors have executed this document on the date indicated

Docusigned by: Jiayu Pen	7/29/2022
A17EC5C9E2E34A7 Jiayu Peng	Date
DocuSigned by:	8/6/2022
6E68DD058683484 Sheng Na Ma	Date
Docusigned by:	7/31/2022
D18C28990BF7444Xichen Huang	Date
James Robert Koohler	7/29/2022
200FC6 Japaness Robert Koehler	Date
DocuSigned by:	8/10/2022
2E4B277D023445F Lu Zhang	Date